1786307

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: IC 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Easy PCB replacement thanks to plug-in modules
- · Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- · Can be combined with the MSTB 2,5 range
- · Low temperature rise, thanks to maximum contact force

Commercial data

Item number	1786307
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA03
Product key	AACADA
Catalog page	Page 272 (C-1-2013)
GTIN	4017918042455
Weight per piece (including packing)	26.19 g
Weight per piece (excluding packing)	25.077 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	IC 2,5/ST
Product line	COMBICON Connectors M
Туре	Inverted
Number of positions	15
Pitch	5.08 mm
Number of connections	15
Number of rows	1
Number of potentials	15
Mounting flange	without

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	320 V
Degree of pollution	3
Contact resistance	2.9 mΩ
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Туре	Inverted
Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm ²
Contact connection type	Pin

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 2.5 mm²

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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 2.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² 1 mm ²
2 conductors with same cross section, flexible	0.2 mm ² 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.4 mm
Stripping length	7 mm
Tightening torque	0.5 Nm 0.6 Nm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
erial specifications aterial data - contact	
	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
aterial data - contact	
aterial data - contact Note	60068-2-82/JEDEC JESD 201
aterial data - contact Note Contact material	60068-2-82/JEDEC JESD 201 Cu alloy
aterial data - contact Note Contact material Surface characteristics	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn)
Aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface terminal point (middle layer)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni)
Aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface terminal point (middle layer) Metal surface contact area (top layer)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) Tin (5 - 7 μm Sn)
Aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface terminal point (middle layer) Metal surface contact area (top layer) Metal surface contact area (middle layer)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) Tin (5 - 7 μm Sn)
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface terminal point (middle layer) Metal surface contact area (top layer) Metal surface contact area (middle layer) aterial data - housing	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni)
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface terminal point (middle layer) Metal surface contact area (top layer) Metal surface contact area (middle layer) Metal surface contact area (middle layer) Color (Housing)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) green (6021)
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface terminal point (middle layer) Metal surface contact area (top layer) Metal surface contact area (middle layer) Metal surface contact area (middle layer) aterial data - housing Color (Housing) Insulating material	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) green (6021) PA
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface terminal point (middle layer) Metal surface contact area (top layer) Metal surface contact area (middle layer)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) green (6021) PA I
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface terminal point (middle layer) Metal surface contact area (top layer) Metal surface contact area (top layer) Metal surface contact area (middle layer)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) green (6021) PA I 600
aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface terminal point (middle layer) Metal surface contact area (top layer) Metal surface contact area (middle layer)	60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni) green (6021) PA I 600 V0

125 °C

Dimensions

10-2

Temperature for the ball pressure test according to EN 60695-

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Dimensional drawing	h v v
Pitch	5.08 mm
Width [w]	77.7 mm
Height [h]	15 mm
Length [I]	19.2 mm
ounting	
Drive form screw head	Slotted (L)
otes	
Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
echanical tests	
Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	7 N
Torque test	
Specification	IEC 60999-1:1999-11
Posistance of inceriptions	
Resistance of inscriptions Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed



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Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Dimension check Specification	IEC 60512-1-2:2002-02

Environmental and real-life conditions

pecification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	2.9 mΩ
Contact resistance R ₂	3 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
limatic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	2.21 kV
mbient conditions	
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

Electrical tests

 Thermal test | Test group C

 Specification
 IEC 60512-5-1:2002-02

 Tested number of positions
 16

 Insulation resistance
 IEC 60512-3-1:2002-02

 Specification
 IEC 60512-3-1:2002-02

 Insulation resistance, neighboring positions
 > 5 MΩ



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Specification	IEC 60664-1:2007-04
nsulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

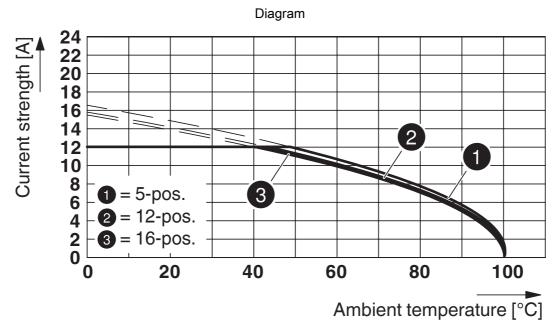
Packaging specifications



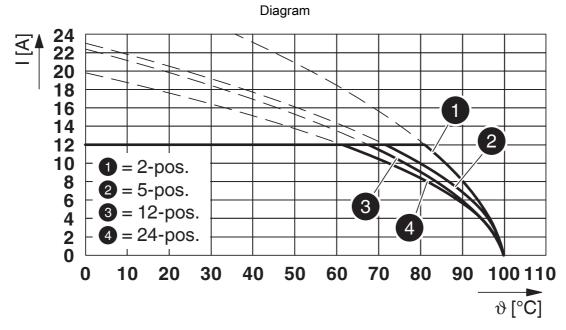
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Drawings



Type: (U)MSTBVK 2,5/...-ST-5,08 with IC 2,5/...-ST-5,08



Type: IC 2,5/...-ST-5,08 with ICV 2,5/...-G-5,08



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1786307

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	10 A	28 - 12	-
Use group D				
	300 V	10 A	28 - 12	-

CULus Recogni Approval ID: E60425	CULus Recognized Approval ID: E60425-19931014			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	250 V	12 A	30 - 12	-
Use group D				
	300 V	10 A	30 - 12	-

VDE Zeichengenehmigung Approval ID: 40050694				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	250 V	12 A	-	0.2 - 2.5

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Classifications

ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

ETIM

	ETIM 9.0	EC002638			
UN	UNSPSC				
	UNSPSC 21.0	39121400			

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions			
China RoHS				
Environment friendly use period (EFUP)	EFUP-E			
	No hazardous substances above the limits			
EU REACH SVHC				
REACH candidate substance (CAS No.)	No substance above 0.1 wt%			

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Accessories

SZS 0,6X3,5 - Screwdriver

1205053 https://www.phoenixcontact.com/us/products/1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

CR-MSTB - Coding section

1734401 https://www.phoenixcontact.com/us/products/1734401

Coding section, inserted into the recess in the header or the inverted plug, red insulating material



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SK 5,08/3,8:FORTL.ZAHLEN - Marker card

0804293

https://www.phoenixcontact.com/us/products/0804293



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08×3.8 mm

KGS-MSTB 2,5/15 - Cable housing

1783847 https://www.phoenixcontact.com/us/products/1783847



Cable housing, color: green, product range: KGS-MSTB 2,5, width: 19.8 mm

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EBP 2-5 - Insertion bridge

1733169

https://www.phoenixcontact.com/us/products/1733169

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



MSTB-BL - Accessories

1755477 https://www.phoenixcontact.com/us/products/1755477



Keying cap, for forming sections, plugs onto header pin, green insulating material

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FRONT-MSTB 2,5/15-ST-5,08 - PCB connector

1777413

https://www.phoenixcontact.com/us/products/1777413



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: FRONT-MSTB 2,5/..-ST, pitch: 5.08 mm, connection method: Front screw connection, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

MVSTBR 2,5/15-ST-5,08 - PCB connector

1792375 https://www.phoenixcontact.com/us/products/1792375



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: MVSTBR 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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FKCVW 2,5/15-ST-5,08 - PCB connector

1873786

https://www.phoenixcontact.com/us/products/1873786



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: FKCVW 2,5/..-ST, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

MSTBU 2,5/15-STD-5,08 - PCB connectors

1824256 https://www.phoenixcontact.com/us/products/1824256



Direct plug-in block, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: MSTBU 2,5/..-STD, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Direct mounting, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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MVSTBW 2,5/15-ST-5,08 - PCB connector

1792883

https://www.phoenixcontact.com/us/products/1792883



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: MVSTBW 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

IC 2,5/15-G-5,08 - PCB header

1786530 https://www.phoenixcontact.com/us/products/1786530



PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: IC 2,5/..-G, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 2, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

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ICV 2,5/15-G-5,08 - PCB header

1786077

https://www.phoenixcontact.com/us/products/1786077



PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: ICV 2,5/..-G, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.6 mm, number of solder pins per potential: 2, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

MSTBP 2,5/15-ST-5,08 - PCB connector

1769146 https://www.phoenixcontact.com/us/products/1769146



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: MSTBP 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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MSTB 2,5/15-STZ-5,08 - PCB connector

1764251

https://www.phoenixcontact.com/us/products/1764251



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: MSTB 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

MSTB 2,5/15-ST-5,08 - PCB connector

1757145 https://www.phoenixcontact.com/us/products/1757145



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: MSTB 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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FKCT 2,5/15-ST-5,08 - PCB connector

1902246

https://www.phoenixcontact.com/us/products/1902246



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: FKCT 2,5/..-ST, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

QC 1/15-ST-5,08 - PCB connector

1883831 https://www.phoenixcontact.com/us/products/1883831



PCB connector, nominal cross section: 1 mm², color: green, nominal current: 10 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: QC 1/..-ST, pitch: 5.08 mm, connection method: Displacement connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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FKC 2,5/15-ST-5,08 - PCB connector

1873184

https://www.phoenixcontact.com/us/products/1873184



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: FKC 2,5/..-ST, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

MSTBC 2,5/15-ST-5,08 - PCB connector

1808942 https://www.phoenixcontact.com/us/products/1808942



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: MSTBC 2,5/..-ST, pitch: 5.08 mm, connection method: Crimp connection, conductor/PCB connection direction: 0°, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte

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